

FIG. 1 (PRIOR ART)

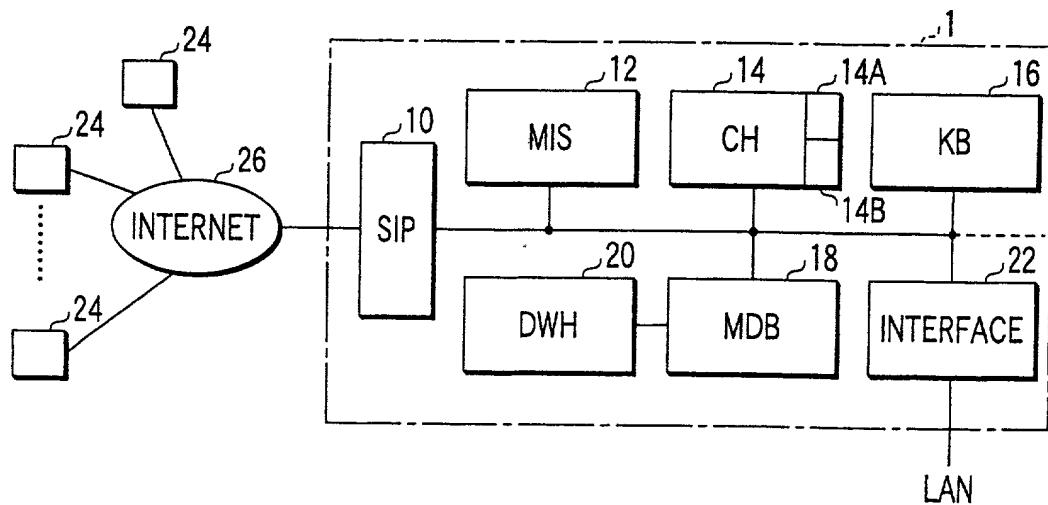


FIG. 2

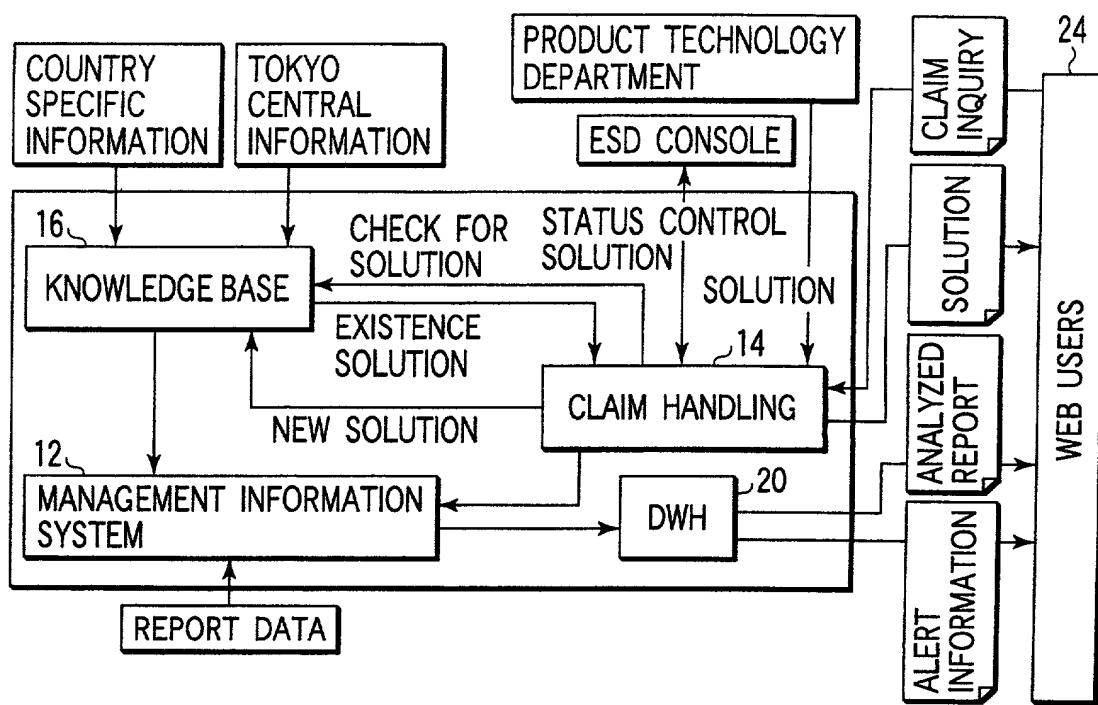


FIG. 3

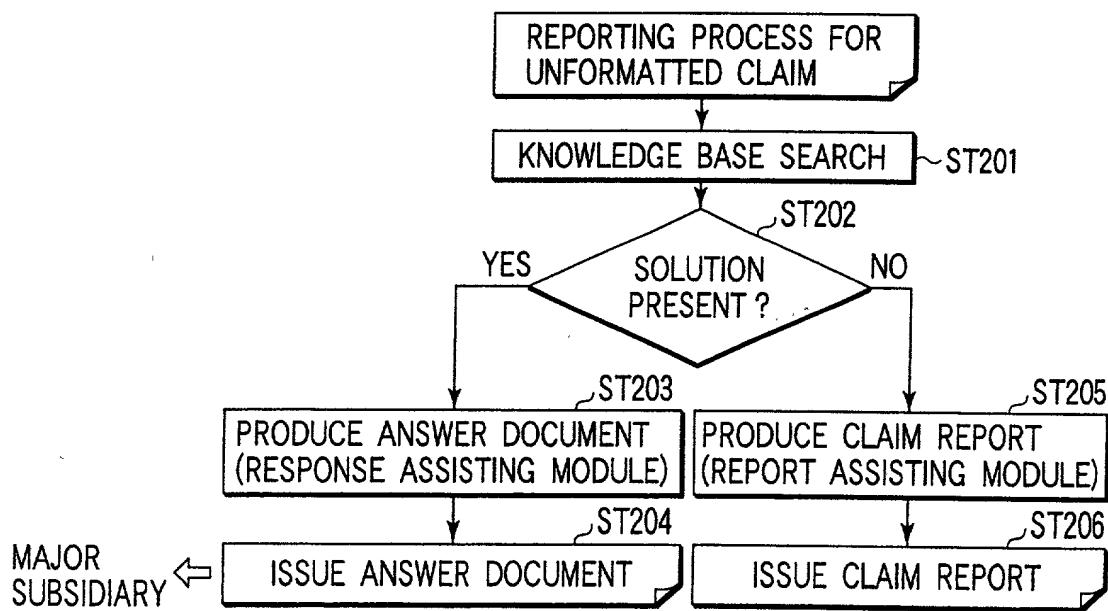


FIG. 5

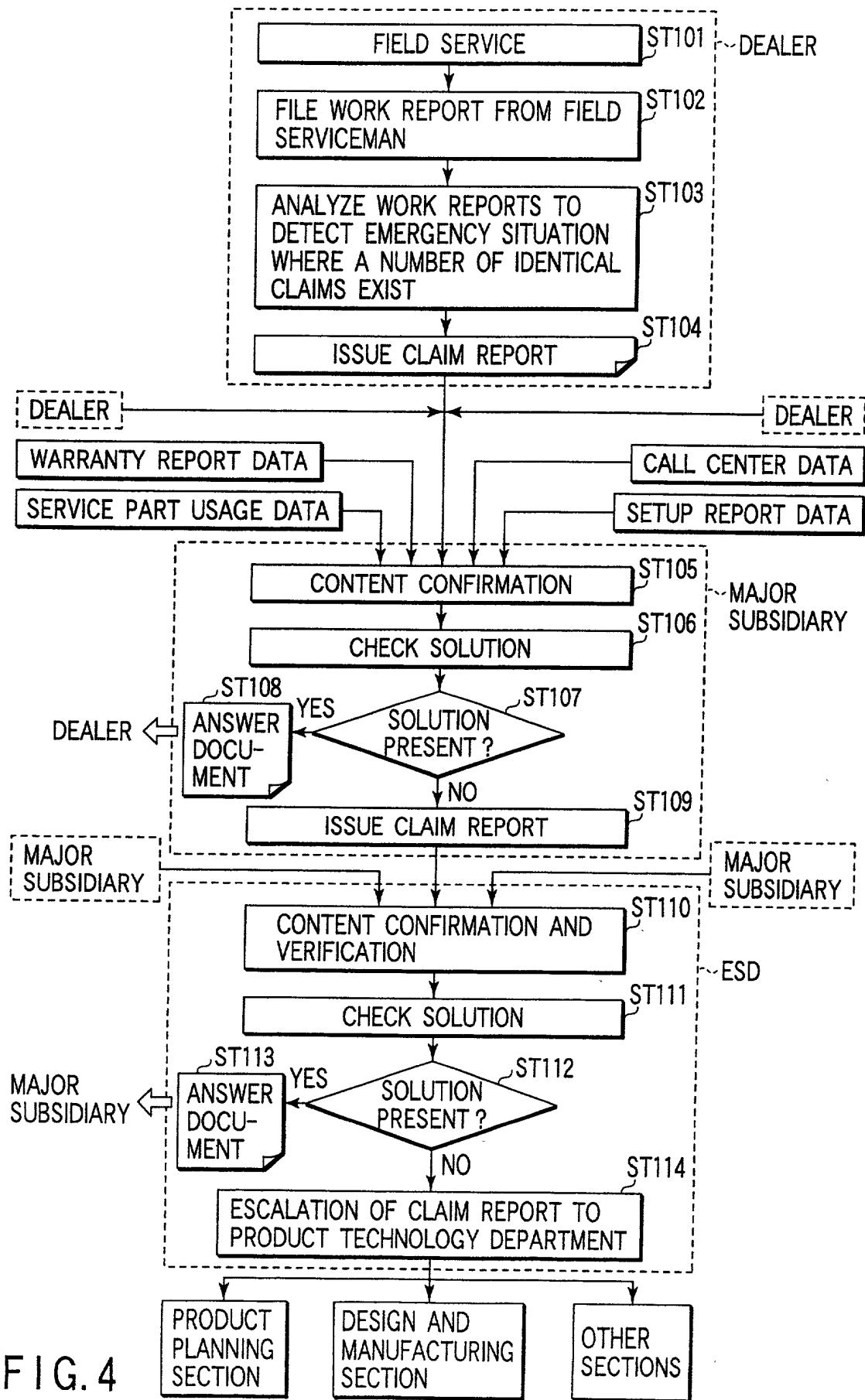


FIG. 4

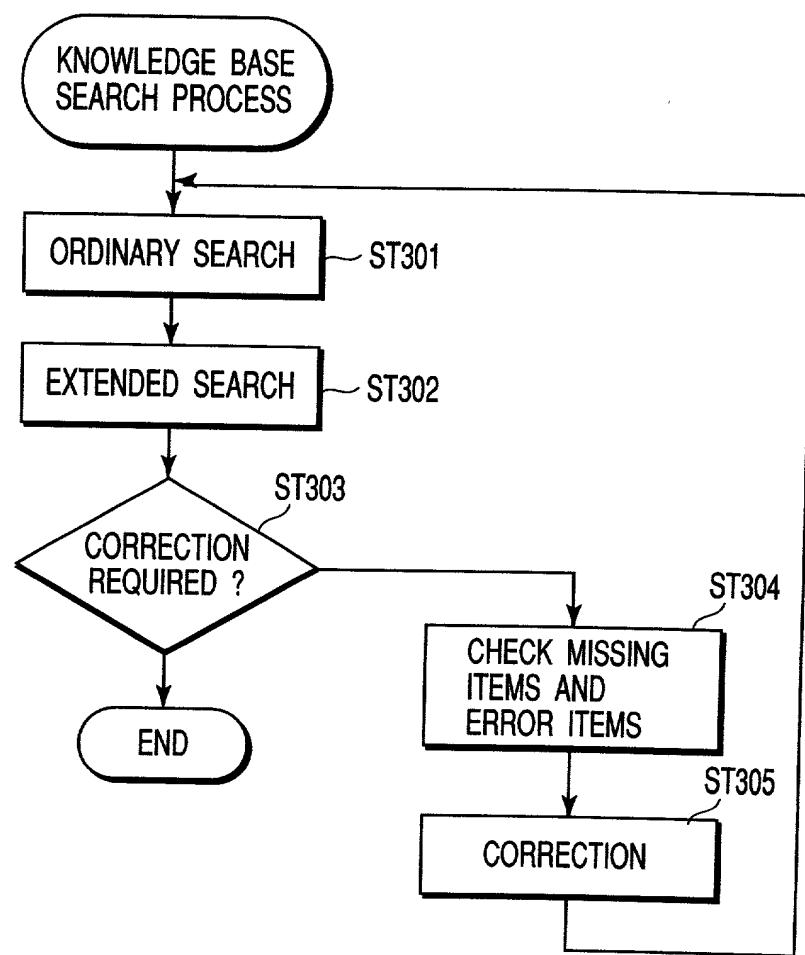


FIG. 6

Problem Type (J)	Problem Type (E)
P01 画像不良	P01 Copy/print image quality
P02 用紙搬送、排出、ジャムカール、しわ	P02 Paper feed/exit, jam, curl, crease
P03 原稿搬送、排出	P03 Original feeding/exiting
P04 異常音、騒音	P04 Abnormal noise
P05 機械部品破損、不具合、汚れ、機械内部汚れ、キヤリア落ち、トナー飛散	P05 Mechanical trouble (breakage, fall off, rust)
P06 製造組み立てミス(誤取付け、欠品)	P06 Contamination M/C inside, carrier/toner spew
P07 調整不良	P07 Assembling failure (Fixing error, missing)
P08 動作不良	P08 Adjustment failure
P09 異常動作、異常表示	P09 Erratic operation/display
P10 電気部品不良	P10 Electrical parts failure
P11 操作性、作業性、その他改善、変更要求	P11 Operability, serviceability other request to improve
P12 ライフ未達、消費量関連	P12 Premature life/yield
P13 プリンターアクション不良	P13 Printer operation in general
P14 FAX動作不良	P14 FAX operation failure
P15 輸送ダメージ	P15 Shipping damage
P16 サービスバージョン & 消耗品関連	P16 Service parts/supplies
P17 サービス資料関連	P17 Service document
P18 その他	P18 Others

FIG. 7

Unit (J)	Unit (E)
U01 給紙ユニット	U01 Paper feeder unit
U02 オプション給紙ユニット	U02 LCF/PFU/PFP
U03 光学/レーザーユニット	U03 Optional/Laser Unit
U04 ドラム	U04 Drum
U05 チャージャー/グリッド	U05 Charger/Grid
U06 現像器ユニット	U06 Developer unit
U07 トナー/カートリッジ	U07 Toner/Cartridge
U08 クリーナーユニット	U08 Cleaner unit
U09 プロセスユニット全般	U09 Process unit in overall
U10 機体内用紙搬送ユニット	U10 Paper transport unit
U11 定着器ユニット	U11 Fuser unit
U12 排紙ユニット	U12 Exit unit
U13 ADD	U13 ADD
U14 ADF	U14 ADF
U15 ソーター/フィニッシャー	U15 Sorter/Finisher
U16 ドライブユニット	U16 Drive Unit
U17 コンパネユニット	U17 Control Panel unit
U18 PC板、その他電気部品	U18 PWA or other electrical circuit
U19 電源ユニット/高圧トランス	U19 Power supply unit/HVT
U20 HDD/拡張メモリー	U20 HDD/Expansion memory
U21 ネットワークコントローラー	U21 Network controller
U22 FAX/NCUボード	U22 FAX/NCU board
U23 本体ファームウェア	U23 Firmware in machine
U24 ドライバーソフトウェア	U24 Driver software
U25 ネットワーク環境	U25 Network environment
U26 外装カバー	U26 Exterior covers
U27 梱包箱	U27 Packaging
U28 その他	U28 Others

FIG. 8

Code	Machine Status
E1	Paper jam inside the copier
E2	Paper jam near fuser unit
E3	Paper remaining inside the copier when the main switch is turned on
E4	The front cover is opened during copying
E5	Paper misfeed in LCF and manual feeding and paper jam in front of the aligning roller
E8	Paper misfeed (ADD)
E9	Paper misfeed (pedestal)
EC	Paper misfeed (ADF)
ED	Paper misfeed in ADF transport unit
EE	Paper misfeed in ADF exit / reverse unit
C3	Abnormal serial transmission between main CPU and sub-CPU
C5	The optical system will not initialize ; the optical system is locked
C7	Heat roller thermistor is open-circuited
CB	ADF feed motor locked
CC	ADF transport motor locked
A0	Abnormal signal transmission in PFC interface
A1	Faulty charger wire cleaning operation
A2	ADD malfunction
A3	PFC (paper feed controller) malfunction
A4	Sorter malfunction
A5	Abnormal signal transmission between main CPU and IPC
A6	Abnormal signal transmission in sorter interface
A7	Abnormal signal transmission in ADF interface
A9	Blown exposure lamp or defective AES

FIG. 9

Standard terms	Problems
Sheet jam	Sheet jam. Paper jam. Stuck sheet. Paper misfeed
Mistransfer	Mistransfer. White void. Image void
Misalignment of leading edge	Missalignment of leading image. Positional error of leading edge. Misregistration
Tone deficiency	Image tone deficiency. Low tone image

FIG. 10

Standard teams	Position / related units
Developer unit	Developing unit. Developer unit. Process unit. Magnet roller. Developing roller. Doctor blade
Cleaner unit	Cleaner unit. Cleaning unit. Cleaning blade. Recovery blade
Sheet feeder unit	Feeder unit. Feeder. Sheet feeding unit. Sheet feeding roller. Aligning roller. Feed roller. Cassette. Sheet cassette
Fixing unit	Fixing unit. Fuser unit. Heat roller. Pressure roller. Fixing roller. Thermister. Thermostat. Thermal fuse
Optical unit	Optical system. Optical unit. Laser unit. Exposure lamp. Exposing lamp. Carriage. Laser exposing unit. Polygon mirror. Carriage rail
Charger unit	Main charger. Grid. Transfer charger. Separation charger. Guide bypass. High voltage transformer
Electrical circuit unit	Power supply unit. AC unit. Logic PC-board. Memory PC-board. Driver PC-board
Sorter unit	Sorter. Finisher

FIG. 11

Standard terms	Causes
Mechanical breakdown	Deformation. Peeling. Splitting. Notch. Crack
Mechanical failure	Slovenly rotation. Slow operation. Motion failure. Locking
Wire disconnection	Harness disconnection. Wire disconnection. Insufficient wiring. Disconnection
Coupling failure	Removal of connectors. Removal of pins. Displacement of connectors. Insufficient insertion. Insertion error
Power failure	No power supply. Voltage drop. Unstable voltage. Power-supply noise
PC-board failure	Fracture of PC-board. Malfunction of PC-board

FIG. 12

Standard terms	Countermeasures
Replacing	Replacing of device. Replacing of parts. Exchanging of parts
Adjusting	Re-adjusting. Adjusting of mechaanical parts. Electrical adjustment. Adjusting
Modification	Re-shaping of parts. Bending. Draw-filing. Change of wiring
Cleaning	Cleaning. Removal of foreign matters. Wiping
Oiling	Application of oil. Greasing. Oiling
Replenishing	Replenishing. Adding

FIG. 13

## CLAIM REPORT

- a. Report source
- b. Rank of importance
- c. Claim category
- d. Claim title
- e. Claim details
- f. situation

FIG. 14

- c. Claim category  
model [DP3580], problem code [P05], unit code [U23],  
cause code [C02], error code [E005]
- d. Claim title  
Paper jam under the drum due to breakage of the drum sensor  
problem position cause
- f. Situation  
Troubled part [Part number]  
Troubled software [Software number]  
Product lot [Serial number indicating factory and produced month]  
Copy counter [Total copy count]
- e. Claim details  
Problem, position/related unit, cause, treatment

FIG. 15